

PORSF  
11.3.125.14  
NODATE

PHOSPHORUS (P) \*

OSHA PEL:  $0.1\text{mg}/\text{M}^3$  (yellow P)

ACGIH TLV:  $0.1\text{mg}/\text{M}^3$  (yellow P)

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PHYSICAL DATA

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Appearance: Reddish-brown powder

Melting Point:  $590^\circ\text{C}$  @ 43 atm

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PHYSIOLOGICAL EFFECTS

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Phosphorous can be absorbed through the skin, respiratory tract and the gastrointestinal tract. Contact with skin may cause severe and painful burns and the contact area turns grayish-white. Infection often occurs. Direct eye contact may cause ocular damage. Inhalation of vapors (oxide) has caused respiratory tract irritation. Chronic intoxication includes gastrointestinal distress and garlic breath. A classical effect of chronic phosphorous intoxication is necrosis of the jaw.

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REACTIVITY DATA

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Phosphorus is incompatible with potassium chlorate, potassium permanganate, peroxides and oxidizing materials. It can react with reducing materials. When heated, phosphorus emits highly toxic fumes of  $\text{PO}_x$ .

Yellow phosphorus ( $\text{P}_4$ ) is incompatible with air and all oxidizing agents. It will ignite spontaneously in air.

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